Taiwan Semiconductor

2A, 40V - 200V Surface Mount Schottky Barrier Rectifiers

FEATURES

- Low power loss, high efficiency
- Ideal for automated placement
- Guard ring for over-voltage protection
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21







MECHANICAL DATA

Case: SOD-123W

Molding compound: UL flammability classification rating 94V-0

Moisture sensitivity level: level 1, per J-STD-020 Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test Polarity: Indicated by cathode band Weight: 16 mg (approximately)





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
SS220	IINIT				
LW	UNIT				
2BLW					
200	V				
140	V				
200	V				
	Α				
50					
.95	V				
10	μΑ				
	°C/W				
- 55 to +125 - 55 to +150					
	°C				
	0.95 10				

Note 1: Pulse test with PW=300 μ s, 1% duty cycle



Taiwan Semiconductor

ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
SS2xLW	Н	RV	G	SOD-123W	3,000 / 7" Plastic reel
(Note 1, 2)		RQ		30D-123W	10,000 / 13" Paper reel

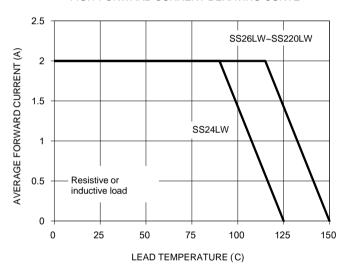
Note 1: "x" defines voltage from 40V (SS24LW) to 200V (SS220LW)

Note 2: Whole series with green compound (halogen-free)

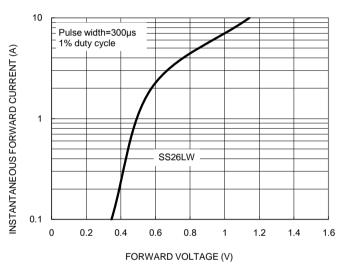
EXAMPLE					
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SS24LWHRVG	SS24LW	Н	RV	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES (T_A=25°C unless otherwise noted)











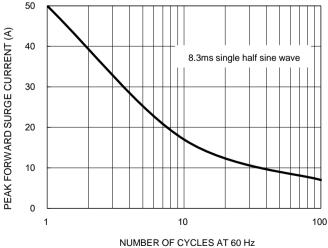


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

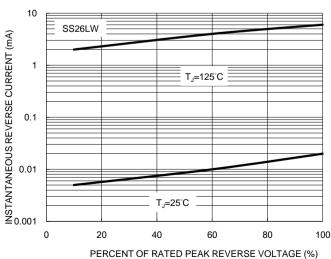
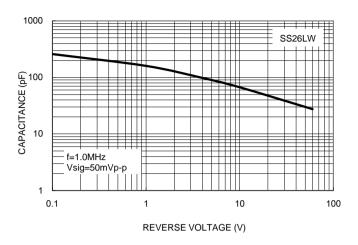


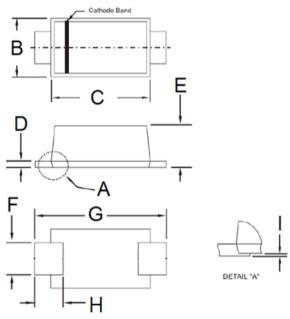


FIG. 5 TYPICAL JUNCTION CAPACITANCE



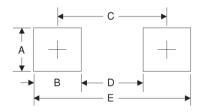
PACKAGE OUTLINE DIMENSIONS

SOD-123W



DIM.	Unit	(mm)	Unit (inch)		
DIW.	Min	Max	Min	Max	
В	1.70	1.90	0.067	0.075	
С	2.60	2.90	0.102	0.114	
D	0.10	0.22	0.004	0.009	
Е	0.90	1.02	0.035	0.040	
F	0.90	1.05	0.035	0.041	
G	3.60	3.80	0.142	0.150	
Н	0.50	0.85	0.020	0.033	
ĺ	0.00	0.10	0.000	0.004	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	1.4	0.055
В	1.2	0.047
С	3.1	0.122
D	1.9	0.075
E	4.3	0.169

MARKING DIAGRAM



P/N = Marking Code

YW = Date Code

= Factory Code



Taiwan Semiconductor

Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Version: B1906

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Taiwan Semiconductor:

 SS26LW RQG
 SS215LW RQG
 SS220LW RVG
 SS210LW RQG
 SS26LW RVG
 SS24LW RVG
 SS24LW RVG
 SS24LW RQG

 SS220LW RQG
 SS210LW RVG
 SS210LW
 SS215LW
 SS220LW
 SS26LW RVG
 SS24LW RVG
 SS24LW RQG

 SS220LWH
 SS210LW RVG
 SS210LW
 SS210LW
 SS26LW RVG
 SS210LWH
 SS215LWH